



## **Risk factors for antimicrobial use in Danish rosé veal calves. A register-based study**

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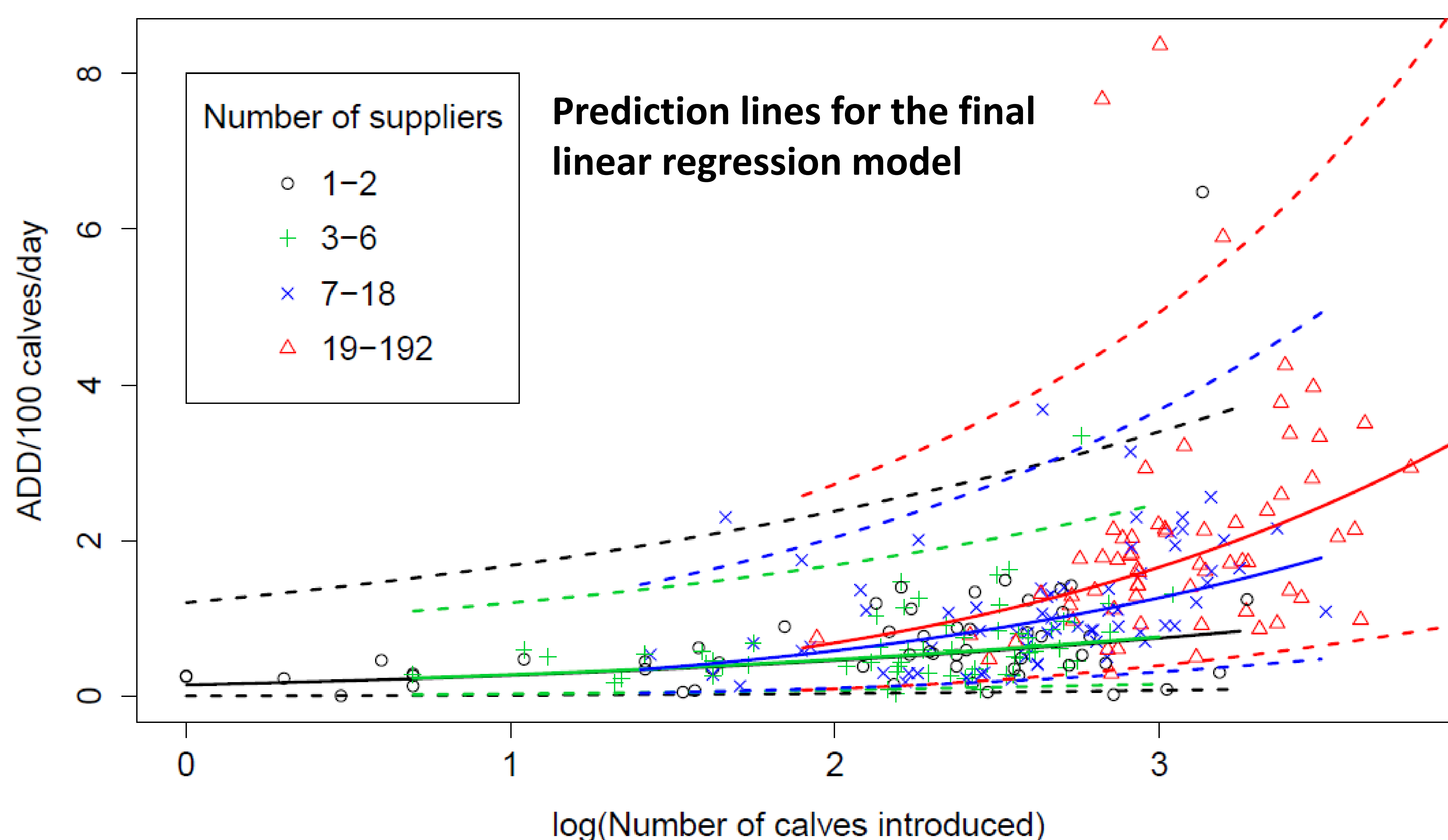
# Risk factors of antimicrobial use in Danish rosé veal calves. A register-based study.

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**Number of calves introduced and number of suppliers had a significant effect on the amount of used antimicrobials in Danish rosé veal calf herds. Herds with >6 suppliers are expected to use 0.4-0.6 ADD<sub>200</sub> / 100 calves/day more than herds with 1-6 suppliers.**



## Data sources

### 1. VetStat

Prescribed antimicrobials quantified as Animal Daily Doses for calves (200 kg), ADD<sub>200</sub> and standardized as ADD<sub>200</sub>/100 calves/day

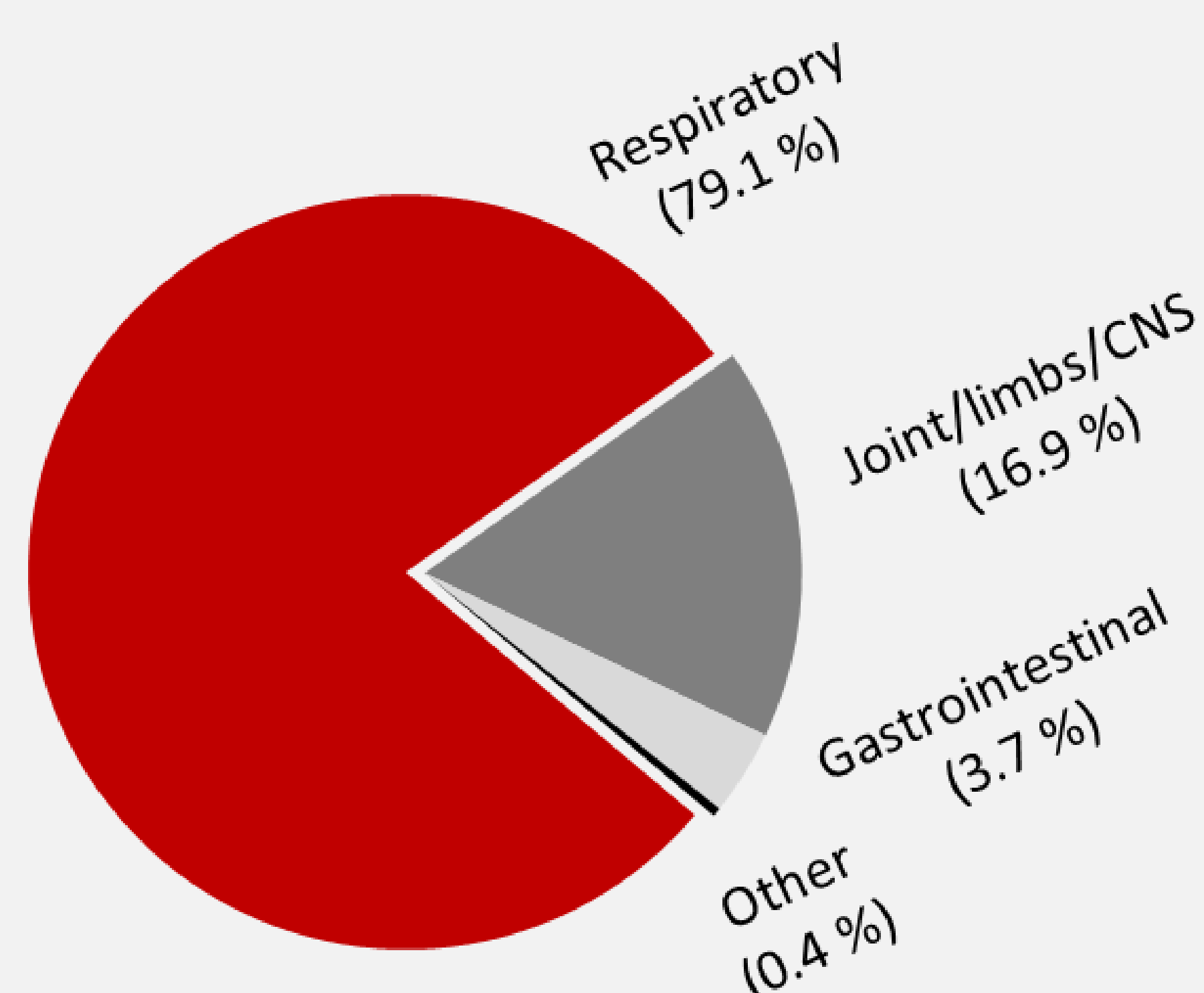
### 2. Danish Cattle database

Study herds (n=245):

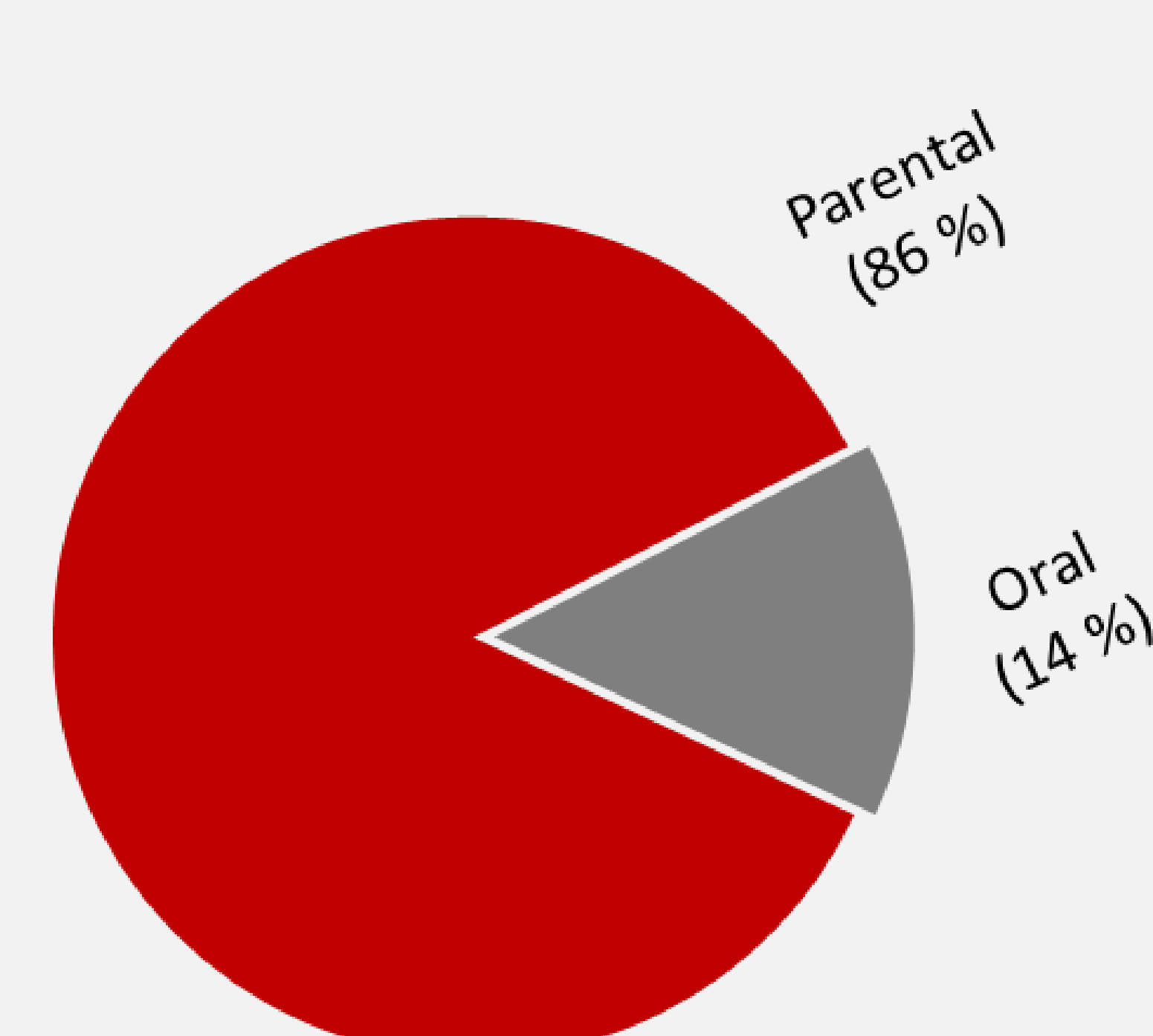
- Slaughtering > 100 bulls in 2014
- Non milk-delivering
- Min. 80% milking- or mixed breeds

## Descriptive statistics

### Indication of antimicrobial prescription



### Administration route of antimicrobials



Based on data from 2014 in the two national databases we performed a linear regression model with the amount of prescribed antimicrobials as outcome and the following explanatory variables: Number of introduced calves, number of suppliers, frequency of purchase, average length of time in the herd, average age at entrance, production type and vaccination.

